

## ABSTRACT

An optical waveguide chip having an optical waveguide which can keep good transmission characteristics stably over a long period of time without separations or cracks even in severe use conditions, and an optical fiber guide portion formed without cracks firmly with a shape and a size corresponding to those of an optical fiber is provided. An optical waveguide chip 1 has a support 2, an optical waveguide 3 having a core portion 7, clad layers 6 and 8, an optical fiber guide portion 4 for positioning an optical fiber to be connected with the optical waveguide 3, and a cover member (glass plate) 5. The optical waveguide 3 is made of a radiation-sensitive polysiloxane composition. The optical fiber guide portion 4 is made of the same or a different radiation-sensitive polysiloxane composition as/from the material of the optical waveguide 3. The optical waveguide 3 and the optical fiber guide portion 4 are formed by separate processes.